



JFA
Atty. Dkt. No. 039363-0703

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ryan Bremer et al.

Title: CRYSTAL STRUCTURE OF
PIM-1 KINASE

Appl. No.: 10/664,421

Filing Date: 09/16/2003

Examiner:

Art Unit:

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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Commissioner for Patents
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Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document, except as noted below, is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003.

Accordingly, copies of these types of documents are not being supplied in connection with this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without*

Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even

entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date 21 Sept. 2004

By Wesley B. Ames

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Wesley B. Ames
Attorney for Applicant
Registration No. 40,893

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Substitute for form 1449B/PTO-1A/16

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/664,421
Filing Date	09/16/2003
First Named Inventor	Ryan BREMER
Group Art Unit	
Examiner Name	

Attorney Docket Number 039363-0703

Sheet 1 of 26

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
A1	4,150,949			Smith	04-24-1979	
A2	4,568,649			Bertoglio-Matte	02-04-1986	
A3	4,626,513			Burton et al.	12-02-1986	
A4	5,143,854			Pirring et al.	09-01-1992	
A5	5,426,039			Wallace et al.	06-20-1995	
A6	5,434,049			Okano et al.	07-18-1995	
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A19	5,721,118			Schefler	02-24-1998	
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A36	6,022,963			McGall et al.	02-08-2000	
A37	6,025,155			Hadlaczky et al.	02-15-2000	
A38	6,045,996			Cronin et al.	04-04-2000	

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Date Considered

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Substitute for form 1449B/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/664,421
				Filing Date	09/16/2003
				First Named Inventor	Ryan BREMER
				Group Art Unit	
				Examiner Name	
(use as many sheets as necessary)					
Sheet	2	of	26	Attorney Docket Number	039363-0703

U.S. PATENT DOCUMENTS

U.S. Patent Document			
A39	6,048,695	Bradley et al.	04-11-2000
A40	6,054,270	Southern	04-25-2000
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A42	6,096,718	Weitzman et al.	08-01-2000
A43	6,107,478	Pedersen et al.	08-22-2000
A44	6,110,456	During	08-29-2000
A45	6,110,458	Freeman et al.	08-29-2000
A46	6,113,913	Brough et al.	09-05-2000
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A55	6,294,330	Michnick et al.	09-25-2001

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	A63	AARONSON, "Growth Factors and Cancer," <i>Science</i> . 254:1146-1153 (1991)		
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	A65	AL-OBEIDI, "Peptide and Peptidomimetic Libraries – Molecular Diversity and Drug Design," <i>Mol Biotechnol</i> 9(3):205-223 (1998)		
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	A69	BARTLETT et al., "CAVEAT: A Program to facilitate the structure-derived design of biologically active molecules." In <i>Molecular Recognition: Chemical and Biological Problems</i> . The Proceedings of an International Symposium, University of Exeter, April 1989, <i>Royal Society of Chemistry</i> , Cambridge I82-I96 (1989)		
	A70	BAYTEL, et al., "The Human Pim-2 Proto-oncogene and its Testicular Expression," <i>Biochimica et Biophysica Acta</i> 1442: 274-285 (1998)		
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	A72	BELLIS et al., "Characterization of Tyrosine Phosphorylation of Paxillin <i>in Vitro</i> by Focal Adhesion Kinase," <i>J Biol Chem</i> 270:17437-17441 (1995)		
	A73	BLUNDELL et al., "Knowledge-Based Protein Modeling and Design," <i>Eur. J. Biochem.</i> 172:513 (1988)		

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	A74	BÖHM, "On the Use of LUDI to Search the Fine Chemicals Directory for Ligands of Proteins of Known Three-Dimensional Structure," <i>J. Comp. Aided Molec. Design</i> 8:623 (1994)	
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	A78	BROWN and BIRNBAUMER, "Ionic Channels and Their Regulation by G Protein Subunits," <i>Ann. Rev. Physiol.</i> 52:197-213 (1990)	
	A79	BRÜNGER, "Free R value: A Novel Statistical Quantity for Assessing the Accuracy of Crystal Structures," <i>Nature</i> 355:472-475 (1992)	
	A80	BUCHSCHER and PANGANIBAN, "Human Immunodeficiency Virus Vectors for Inducible Expression of Foreign Genes," <i>J. Virol.</i> 66:2731-2739 (1992)	
	A81	CAPON, et al., "Designing CD4 Immunoadhesins for AIDS Therapy," <i>Nature</i> 377:525-531 (1989)	

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	A88	COE and STORER, "Solution-phase combinatorial chemistry." <i>Molecular Diversity</i> , 4:1-38, 1999.	
	A89	COLLIUOD, "Oriented and Covalent Immobilization of Target Molecules to Solid Supports: Synthesis and Application of a Light-Activatable and Thiol-Reactive Cross-Linking Reagent," <i>Bioconjugate Chem.</i> 4:528-536 (1993)	

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	A90	COLMAN, "Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:868 (1994)	
	A91	COTRAN et al., "Healing and Repair," <i>Robbins Pathologic Basis of Disease</i> , 4 th Edition, p. 75, (1989)	
	A92	CREIGHTON, "An Empirical Approach to Protein Conformation Stability and Flexibility," <i>Biopolymers</i> 22(1):49-58 (1983)	
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	A99	DOLPHIN, "G Protein Modulation of Calcium Currents in Neurons," <i>Ann. Rev. Physiol.</i> 52:243-255 (1990)			
	A100	DOMEN, et al., "Pim-1 Levels Determine the Size of Early B Lymphoid Compartments in Bone Marrow," <i>The Journal of Experimental Medicine</i> 178(5):1665-1673 (1993)			
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				Group Art Unit	
				Examiner Name	
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	A106	FISCHER and SCHONBRUNN, "The Bombesin Receptor is Coupled to a Guanine Nucleotide-Binding Protein Which is Insensitive to Pertussis and Cholera Toxins," <i>J. Biol. Chem.</i> , 263(6):2808-2816 (1988)	
	A107	FIVASH et al., "BIACore for Macromolecular Interaction," <i>Current Opinion in Biotechnology</i> 9:97-101 (1998)	
	A108	FREIDINGER RM., "Nonpeptidic Ligands for Peptide and Protein Receptors," <i>Current Opinion in Chemical Biology</i> 3:395-406 (1999)	
	A109	FRUCHT, et al., "Characterization of Functional Receptors for Gastrointestinal Hormones on Human Colon Cancer Cells," <i>Cancer Research</i> , 52:1114-1122 (1992)	
	A110	GALLOP et al., "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <i>J. Med. Chem.</i> , 37:1233-1251 (1994)	
	A111	GILMAN, A., "G Proteins: Transducers of Receptor-Generated Signals," <i>Ann. Rev. Biochem.</i> 56:615-649 (1987)	
	A112	GOODFORD, P., "A Computational Procedure for Determining Energetically Favorable Binding Sites on Biologically Important Macromolecules," <i>J. Med. Chem.</i> 28:849-857 (1985)	
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	A114	GORDON <i>et al.</i> , "Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions," <i>J. Med. Chem.</i> , 37:1385-1401 (1994)	
	A115	GORDON and FORD, "Detection of Peroxides and Their Removal," <i>The Chemist's Companion: A Handbook Of Practical Data, Techniques, And References</i> , John Wiley and Sons, p. 437 (1972)	
	A116	GRAM H., "Phage Display in Proteolysis and Signal Transduction," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:19-28 (1999)	
	A117	GRAVERT and JANDA, "Synthesis on Soluble Polymers: New Reactions and the Construction of Small Molecules," <i>Curr. Opin. Chem. Biol.</i> 1(1):107-13 (1997)	
	A118	GREER, J., "Model Structure for the Inflammatory Protein C5a," <i>Science</i> 228:1055-1060 (1985)	
	A119	GUIDA, C., "Software for Structure-Based Drug Design," <i>Current Opinion in Struc. Biol.</i> 4:777-781 (1994)	
	A120	GUMBINER, B., "Proteins Associated with the Cytoplasmic Surface of Adhesion Molecules," <i>Neuron</i> , 11:551-564 (1993)	
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	A122	HANDS, et. al., "A Convenient Method for the Preparation of 5-,6- and 7-Azaindoles and Their Derivatives," <i>Synthesis</i> , pp. 877-882 (1996).			
	A123	HANSELMAN et al., "A cDNA-Dependant Scintillation Proximity Assay for Quantifying Apolipoprotein A-1," <i>J. Lipid Res.</i> 38:2365-2373 (1997)			
	A124	HARTMANN, H., "Moleküldesign Bei Fluoreszenzfarbstoffen," <i>Chimia</i> , 48:512-514 (1994)			
	A125	HAUCK, et al., "Focal Adhesion Kinase Functions as a Receptor-Proximal Signaling Component Required for Directed Cell Migration," <i>Immunol Res.</i> 21:293-303 (2000)			
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	A131	HILLE, B., "G Protein-Coupled Mechanisms and Nervous Signaling," <i>Neuron</i> , 9:187-195 (1992)	
	A132	HOUGHTEN <i>et al.</i> , "Generation and Use of Synthetic Peptide Combinatorial Libraries for Basic Research and Drug Discovery," <i>Nature</i> , 354:84-86 (1991)	
	A133	HOUGHTEN, R., "Peptide Libraries: Criteria and Trends," <i>Trends Genet.</i> , 9:235-239 (1993)	
	A134	HOUGHTON, "Parallel Array and Mixture-Based Synthetic Combinatorial Chemistry: Tools for the Next Millennium," <i>Annu Rev Pharmacol Toxicol</i> 40:273-82 (2000)	
	A135	HUANG, <i>et al.</i> , "Tyrosine Kinase-Dependant Suppression of a Potassium Channel by the G Protein-Coupled m1 Muscarinic Acetylcholine Receptor," <i>Cell</i> , 75:1145-1156 (1993)	
	A136	HUGHES-JONES <i>et al.</i> , "Synthesis of Rh Fv Phage-Antibodies Using VH and VL Germline Genes, <i>British Journal of Haematology</i> 105:811-816 (1999)	
	A137	HYNES, R., "Integrins: Bidirectional, Allosteric Signaling Machines," <i>Cell</i> , 110:673-687 (2002)	

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	A138	IWANE, et al., "Myosin Subfragment-1 is Fully Equipped with Factors Essential for Motor Function," <i>Biophys. Biochem. Res. Comm.</i> 230:76-80 (1997)		
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	A140	JOHNSTON, M., "Gene Chips: Array of Hope for Understanding Gene Regulation," <i>Curr. Biol.</i> 8:R171-R174 (1998)		
	A141	JONES, T., "Interactive Computer Graphics: FRODO," <i>Methods in Enzymology</i> 115:157-171 (1985)		
	A142	JOSEPH-MCCARTHY, D., "Computational Approaches to Structure-Based Ligand Design," <i>Pharmacology & Therapeutics</i> 84:179-191 (1999)		
	A143	KAHL et al., "A Multiple-Approach Scintillation Proximity Assay to Measure the Association Between Ras and Raf," <i>Anal. Biochem.</i> 243:282-283 (1996)		
	A144	KERN and HAMPTON, "Direct Hybridization of Large-Insert Genomic Clones on High-Density Gridded cDNA Filter Arrays," <i>Biotechniques</i> 23:120-124 (1997)		
	A145	KIM H. and KAHN, M., "A Merger of Rational Drug Design and Combinatorial Chemistry: Development and Application of Peptide Secondary Structure Mimetics," <i>Combinatorial Chemistry & High Throughput Screening</i> 3:167-183 (2000)		

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	A146	KIRKPATRICK, et al., "Structure-Based Drug Design: Combinatorial Chemistry and Molecular Modeling," <i>Combinatorial Chemistry & High Throughput Screening</i> 2:211-221 (1999)	
	A147	KLINE et al., "Studies by ¹ H Nuclear Magnetic Resonance and Distance Geometry of the Solution Conformation of the x-Amylase Inhibitor Tendamistat," <i>J. Mol. Biol.</i> 189:377-382 (1986)	
	A148	KNIGHTON et al., "Structural Basis of the Intrasteric Regulation of Myosin Light Chain Kinases," <i>Science</i> 258:130-135 (1992)	
	A149	KOIKE et al., "Identification of Heterochromatin Protein 1 (HP1) as a Phosphorylation Target by Pim-1 Kinase and the Effect of Phosphorylation on the Transcriptional Repression Function of HP1," <i>FEBS Letters</i> , 476:17-21 (2000)	
	A150	KOLASKAR and TONGAONKAR, "A Semi-Empirical Method for Prediction of Antigenic Determinants on Protein Antigens," <i>FEBBS Lett.</i> 276(1-2):172-174 (1990)	
	A151	KONIETZKO et al., "Pim Kinase Expression is Induced by LTP Stimulation and Required for the Consolidation of Enduring LTP," <i>The EMBO Journal</i> 18:3359-3369 (1999)	
	A152	KROLL, et al., "A Multifunctional Prokaryotic Protein Expression System: Overproduction, Affinity Purification, and Selective Detection," <i>DNA Cell. Biol.</i> 12:441-453 (1993)	
	A153	KUNDU et al., "Combinatorial Chemistry: Polymer Supported Synthesis of Peptide and Non-Peptide Libraries," <i>Progress in Drug Research</i> 53:89-156 (1999)	

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	A154	KUNKEL, T., "Rapid and Efficient Site-Specific Mutagenesis Without Phenotypic Selection," <i>Proc. Natl. Acad. Sci.</i> 82:488-492 (1985)		
	A155	KUNTZ, et al., "Structure-Based Molecular Design," <i>Acc. Chem. Res.</i> 27:117 (1994)		
	A156	KUNTZ et al., "A Geometric Approach to Macromolecule-Ligand Interactions," <i>J. Mol. Biol.</i> 162:269 (1982)		
	A157	LAIRD, et al., "In Vivo Analysis of Pim-1 Deficiency," <i>Nucleic Acids Research</i> 21(20):4750-4755 (1993)		
	A158	LAKKAKORPI, et al., "Stable Association of PYK2 and p130 ^{cas} in Osteoclasts and Their Co-Localization in the Sealing Zone," <i>J Biol Chem.</i> 274:4900-4907 (1999)		
	A159	LAM et al., "A New Type of Synthetic Peptide Library for Identifying Ligand-Binding Activity," <i>Nature</i> , 354:82-84 (1991)		
	A160	LEBL et al., "One-Bead-One-Structure," <i>Biopolymers (Peptide Science)</i> 37:177-198 (1995)		
	A161	LEV, et al., "Protein Tyrosine Kinase PYK2 Involved in Ca ²⁺ -Induced Regulation of Ion Channel and MAP Kinase Functions," <i>Nature</i> 376:737-745 (1995)		

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	A162	LI and EARP, "Paxillin is Tyrosine-Phosphorylated by and Preferentially Associates With the Calcium-Dependent Tyrosine Kinase in Rat Liver Epithelial Cells," <i>J Biol Chem</i> , 272:14341-14348 (1997)	
	A163	LIANG <i>et al.</i> , "Ubiquitous Expression and Cell Cycle Regulation of the Protein Kinase PIM-1," <i>Archives of Biochemistry and Biophysics</i> 33(2):259-265 (1996)	
	A164	LILLY <i>et al.</i> , "The PIM-1 Serine Kinase Prolongs Survival and Inhibits Apoptosis-related Mitochondrial Dysfunction in Part Through a <i>bcl-2</i> -dependent Pathway," <i>Oncogene</i> 18:4022-4031 (1999)	
	A165	LIPAROTO and CIARDELLI, "Biosensor Analysis of the Interleukin-2 Receptor Complex," <i>Journal of Molecular Recognition</i> 12:316-321 (1999)	
	A166	LIPINSKI <i>et al.</i> , "Experimental and Computational Approaches to Estimate Solubility and Permeability in Drug Discovery and Development Settings," <i>Advanced Drug Delivery Reviews</i> 23:3-25 (1997)	
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				Group Art Unit	
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	A170	MALMBORG and BORREBAECK, "BIACore as a Tool in Antibody Engineering," <i>Journal of Immunological Methods</i> 183:7-13 (1995)	
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	A231	SMITH, et al., "Necklace-Coded Polymer-Supported Combinatorial Synthesis of 2-Arylaminobenzimidazoles," <i>J. Comb. Chem.</i> 1:368-370 (1999)	
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				Filing Date	09/16/2003
				First Named Inventor	Ryan BREMER
				Group Art Unit	
				Examiner Name	
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Sheet	24	of	26		

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	A234	TEMPLE <i>et al.</i> , "Microarray Analysis of Eosinophils Reveals a Number of Candidate Survival and Spoptosis Genes," <i>Am. J. Respir. Cell Mol. Biol.</i> 25:425-433 (2001)			T ⁶
	A235	ULLRICH and SCHLESSINGER, "Signal Transduction by Receptors With Tyrosine Kinase Activity," <i>Cell</i> , 61:203-212 (1990)			
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	A242	WANG <i>et al.</i> , "Pim-1 Negatively Regulates the Activity of PTP-U2S Phosphatase and Influences Terminal Differentiation and Apoptosis of Monoblastoid Leukemia Cells," <i>Archives of Biochemistry and Biophysics</i> , 390(1):9-18 (2001)	
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	A248	WOON <i>et al.</i> , "Construction and Characterization of a 10-Fold Genome Equivalent Rat P1-Derived Artificial Chromosome Library," <i>Genomics</i> 50:306-316 (1998)	
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	A250	ZHU <i>et al.</i> , "CD40 Signaling in B Cells Regulates the Expression of the Pim 1 Kinase Via the NF-κB Pathway," <i>The Journal of Immunology</i> 168:744-754 (2002)			

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